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L Number	Hits	Search Text	DB
-	960	(251/333).cccls.	USPAT; US-PGPUB
-	1405	251/333,129.02,129.14.cccls.	USPAT; US-PGPUB
-	149	137/315.03,315.27.cccls.	USPAT; US-PGPUB
-	1540	251/333,129.02,129.14.cccls. or 137/315.03,315.27.cccls.	USPAT; US-PGPUB
-	0	Raymundo and Cano	USPAT; US-PGPUB; EPO; JPO; DERWENT
-	4120	delphi.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT
-	27	delphi.asn. and ball near3 valve	USPAT; US-PGPUB; EPO; JPO; DERWENT
-	6	valve near footprint	USPAT; US-PGPUB; EPO; JPO; DERWENT
-	26	valve near3 footprint	USPAT; US-PGPUB; EPO; JPO; DERWENT
-	164	(251/333,129.02,129.14.cccls. or 137/315.03,315.27.cccls. ) and (ball or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft)	USPAT; US-PGPUB
-	6343	(ball or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) and (137/\$.cccls. or 251/\$.cccls.)	USPAT; US-PGPUB
-	56	403/\$.cccls. and ((ball or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) and (137/\$.cccls. or 251/\$.cccls.))	USPAT; US-PGPUB
-	2933	303/113.1-119.3.cccls.	USPAT; US-PGPUB
-	57	303/113.1-119.3.cccls. and ((ball or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) and (137/\$.cccls. or 251/\$.cccls.))	USPAT; US-PGPUB
-	892	(ball or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same truncated	USPAT; US-PGPUB
-	153514	(137/\$.cccls. or 251/\$.cccls.)	USPAT; US-PGPUB
-	70	((137/\$.cccls. or 251/\$.cccls.)) and ((ball or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same truncated)	USPAT; US-PGPUB
-	16936	(ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve	USPAT; US-PGPUB
-	11	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) and 137/315.03,315.27.cccls.	USPAT; US-PGPUB
-	134	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) and 251/333,129.02,129.14.cccls.	USPAT; US-PGPUB

	8368	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection) 137/315.27.ccls.	USPAT; US-PGPUB	
	98		USPAT;	
	3441	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection) near3 (stem or pin or shaft or rod)	USPAT; US-PGPUB	
	285	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection) near3 (stem or pin or shaft or rod) same (bore or recess or hole) near3 (stem or pin or shaft or rod)	USPAT; US-PGPUB	
	113	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection) near3 (stem or pin or shaft or rod) same (bore or recess or hole) near3 (stem or pin or shaft or rod) and ( (137/\$.ccls. or 251/\$.ccls.))	USPAT; US-PGPUB	
	1258	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection) near3 (stem or pin or shaft or rod) and ( (137/\$.ccls. or 251/\$.ccls.))	USPAT; US-PGPUB	
	1271	137/15.22,533.11,519.5,901,247.21,864,879.ccls	USPAT; US-PGPUB	
	7385	251/129.01-129.22,315.16,315.1-317.01.ccls.	USPAT; US-PGPUB	
	8604	137/15.22,533.11,519.5,901,247.21,864,879.ccls or	USPAT; US-PGPUB	
	1761	251/129.01-129.22,315.16,315.1-317.01.ccls. or 251/129.01-129.22,315.16,315.1-317.01.ccls. and (((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection)) and (((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection))) and (((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection)))	USPAT; US-PGPUB	
	578	251/129.01-129.22,315.16,315.1-317.01.ccls. and (((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection))) and (((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection)))	USPAT; US-PGPUB	
	48	888f#82e#4cbs.attach\$5 or connected or connection))	USPAT; US-PGPUB	
	28	spheroidal near3 valve	USPAT; US-PGPUB	

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	47	(ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve same (ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) adj4 (pressfit\$5 or snapfit or snap\$6)	USPAT; US-PGPUB
	4	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection)) and 137/315.03.cccls.	USPAT; US-PGPUB
	58	((ball or rounded adj face or partially adj round\$3 or spherical or truncated near2 sphere or spheroidal) same (mount or rod or stem or pin or shaft) same valve) same (pressfit\$4 or fasten\$4 or attach\$5 or connected or connection)) and 251/333,129.02,129.14.cccls.	USPAT; US-PGPUB
	0	Raymundo and Cano	USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT
	0	saenz.in. and cano.in.	
	33	delphi.asn. and ball near3 valve	
	11	("5012982"   "5048497"   "5336320"   "5391407"   "5585176"   "5688557"   "5731045"   "5783261"   "5837357"   "6062498"   "6145763").PN.	USPAT
	12683	(hemispher\$5 or sphere or spherical or ball) near3 valve same (stem or pin or rod or shaft)	USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT;
	0	((hemispher\$5 or sphere or spherical or ball) near3 valve same (stem or pin or rod or shaft)) same strengthen\$4 near3 (connector or connection or attach\$4 or attach\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	19	((hemispher\$5 or sphere or spherical or ball) near3 valve same (stem or pin or rod or shaft)) same strengthen\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT
	2727	((hemispher\$5 or sphere or spherical or ball) near3 valve same (stem or pin or rod or shaft)) same (connector or connection or attach\$4 or attach\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT;
	707	(hemispher\$5 or sphere or spherical or ball) near3 (stem or pin or rod or shaft) same (connector or connection or attach\$4 or attach\$5) same valve near3 (hemispher\$5 or sphere or spherical or ball)	USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT;
	707	(hemispher\$5 or sphere or spherical or ball) near3 (stem or pin or rod or shaft) same (connector or connection or attach\$4 or attach\$5) same valve near3 (hemispher\$5 or sphere or spherical or ball) same (hemispher\$5 or sphere or spherical or ball) near5 valve	USPAT; US-PGPUB; EPO; JPO; DERWENT
	16	(round) near3 (stem or pin or rod or shaft) same (connector or connection or attach\$4 or attach\$5) same valve near3 (round) same (round) near5 valve	USPAT; US-PGPUB; EPO; JPO; DERWENT
	0	6378842.URPN.	USPAT

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	20	<table border="1"> <tr><td>"2885179"</td><td>"3379408"</td><td>"3479006"</td></tr> <tr><td>"3514076"</td><td>"3576309"</td><td>"3997142"</td></tr> <tr><td>"4137935"</td><td>"4193578"</td><td>"4256285"</td></tr> <tr><td>"4257576"</td><td>"4519579"</td><td>"4697786"</td></tr> <tr><td>"4822000"</td><td>"4911413"</td><td>"5016857"</td></tr> <tr><td>"5170992"</td><td>"5588638"</td><td>"5618026"</td></tr> <tr><td>"5755427"</td><td>"5820103") .PN.</td><td></td></tr> </table>	"2885179"	"3379408"	"3479006"	"3514076"	"3576309"	"3997142"	"4137935"	"4193578"	"4256285"	"4257576"	"4519579"	"4697786"	"4822000"	"4911413"	"5016857"	"5170992"	"5588638"	"5618026"	"5755427"	"5820103") .PN.		USPAT							
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-	1	1983-704224.NRAN.	DERWENT																												
-	1	"20030067217"	USPAT;																												
-	1	"20030067217" and joint	US-PGPUB																												
-	2639	(shaft or rod) near4 (ball or sphere or spherical or cone) same (ball or sphere or spherical or cone) near3 valve	USPAT;																												
-	3	(shaft or rod) near4 (ball or sphere or spherical or cone) same (joint or connection) near4 strengthen\$4 same (ball or sphere or spherical or cone) near3 valve	US-PGPUB;																												
-	1	("6367774") .PN.	EPO; JPO;																												
-	1	("6322050") .PN.	DERWENT																												
-	25	<table border="1"> <tr><td>"3948533"</td><td>"3949965"</td><td>"4161187"</td></tr> <tr><td>"4346730"</td><td>"4662392"</td><td>"4719074"</td></tr> <tr><td>"4722825"</td><td>"4771803"</td><td>"4795133"</td></tr> <tr><td>"4810585"</td><td>"4815704"</td><td>"4834042"</td></tr> <tr><td>"4871621"</td><td>"4932432"</td><td>"4936546"</td></tr> <tr><td>"5015609"</td><td>"5183068"</td><td>"5297580"</td></tr> <tr><td>"5365661"</td><td>"5386967"</td><td>"5566923"</td></tr> <tr><td>"5906354"</td><td>"5977487"</td><td>"5979873"</td></tr> <tr><td>"6178638") .PN.</td><td></td><td></td></tr> </table>	"3948533"	"3949965"	"4161187"	"4346730"	"4662392"	"4719074"	"4722825"	"4771803"	"4795133"	"4810585"	"4815704"	"4834042"	"4871621"	"4932432"	"4936546"	"5015609"	"5183068"	"5297580"	"5365661"	"5386967"	"5566923"	"5906354"	"5977487"	"5979873"	"6178638") .PN.			USPAT	
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-	191	(251/315.16) .CCLS.	USPAT;																												
-	12	((shaft or rod) near4 (ball or sphere or spherical or cone) same (ball or sphere or spherical or cone) near3 valve) and 403/\$.ccls.	US-PGPUB																												
-	1044	(shaft or rod) near4 (ball or sphere or spherical ) and 403/\$.ccls.	USPAT;																												
-	205	((shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) and 403/\$.ccls. )	US-PGPUB;																												
-	210	(shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) and 403/\$.ccls.	EPO; JPO;																												
-	7	(shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) same valve and 403/\$.ccls.	DERWENT																												
-	502	((shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) and 403/\$.ccls. ) or ((shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) same valve near4 (ball or sphere or spherical))	USPAT;																												
-			US-PGPUB;																												
-			EPO; JPO;																												
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-			US-PGPUB;																												
-			EPO; JPO;																												
-			DERWENT																												

	210	((shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) and 403/\$.ccls. ) or ((shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) same valve near4 (ball or sphere or spherical))) and 403/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	295	(shaft or rod) near4 (ball or sphere or spherical ) same (attach\$4 or affix or fasten or strengthen\$3) same valve near4 (ball or sphere or spherical)	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	2378	(shaft or rod) near4 (ball or sphere or spherical ) same (ball or sphere or spherical ) near3 valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	40094	(ball or sphere or spherical ) near4 (notch or v adj shaped or v adj shape or midsection or joint)	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	40	((shaft or rod) near4 (ball or sphere or spherical ) same (ball or sphere or spherical ) near3 valve) same ( (ball or sphere or spherical ) near4 (notch or v adj shaped or v adj shape or midsection or joint))	USPAT; US-PGPUB	:
	14320	(ball or sphere or spherical ) near4 (notch or v adj shaped or v adj shape or midsection or joint) same (rod or shaft or stem)	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	923	( (ball or sphere or spherical ) near4 (notch or v adj shaped or v adj shape or midsection or joint) same (rod or shaft or stem)) same valve	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	8	(( (ball or sphere or spherical ) near4 (notch or v adj shaped or v adj shape or midsection or joint) same (rod or shaft or stem)) same valve) and 403/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	14	(( (ball or sphere or spherical ) near4 (notch or v adj shaped or v adj shape or midsection or joint) same (rod or shaft or stem)) same valve) and 303/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	:
	88	(( (ball or sphere or spherical ) near4 (notch or v adj shaped or v adj shape or midsection or joint) same (rod or shaft or stem)) same valve) and 251/\$.ccls.	USPAT; US-PGPUB	:
	125	(rod near3 ball) adj3 connection	USPAT; US-PGPUB	:
	97	(shaft near3 ball) adj3 connection	USPAT; US-PGPUB	:
	548	(shaft near3 ball) adj3 joint	USPAT; US-PGPUB	:
	28	((shaft near3 ball) adj3 joint) same valve	USPAT; US-PGPUB	:
	15	((shaft near3 ball) adj3 connection) same valve	USPAT; US-PGPUB	:
	10	((rod near3 ball) adj3 connection) same valve	USPAT; US-PGPUB	:
	53	(( (shaft near3 ball) adj3 joint) same valve) or (( (shaft near3 ball) adj3 connection) same valve) or (( (rod near3 ball) adj3 connection) same valve)	USPAT; US-PGPUB	:
	1747	((rod or stem or shaft) near3 (truncated or sphere or spherical or ball)) near8 (affix or affixed or attachment or attach or fastener or connector or connection)	USPAT; US-PGPUB	:
	1484	((rod or stem or shaft) near3 (truncated or sphere or hemisphere or hemispherical or ball)) near8 (affix or affixed or attachment or attach or fastener or connector or connection)	USPAT; US-PGPUB	:

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	176	((rod or stem or shaft) near3 (truncated or sphere or hemisphere or hemispherical or ball)) near8 (affix or affixed or attachment or attach or fastener or connector or connection)) same valve	USPAT; US-PGPUB
	133	((rod or stem or shaft) near3 (truncated or sphere or hemisphere or hemispherical or ball)) near8 (affix or affixed or attachment or attach or fastener or connector or connection)) same valve near8 (truncated or sphere or hemisphere or hemispherical or ball)	USPAT; US-PGPUB
	141	((rod or stem or shaft) near3 (truncated or sphere or hemisphere or hemispherical or ball)) near8 (affix or affixed or attachment or attach or fastener or connector or connection) same valve near8 (truncated or sphere or hemisphere or hemispherical or ball)	USOCR
	611	303/dig\$.ccls.	USPAT; US-PGPUB
	27	303/dig\$.ccls. and pressure adj gradient	USPAT; US-PGPUB
	0	303/dig\$.ccls. and pressure adj gradient same leak	USPAT; US-PGPUB
	238	pressure adj gradient same leak	USPAT; US-PGPUB
	268	pressure near4 gradient same leak	USPAT; US-PGPUB
	4	pressure near4 gradient same leak same brak\$4	USPAT; US-PGPUB
	15	(pressure near4 gradient same leak) and brak\$4	USPAT; US-PGPUB
	4	pressure near4 gradient same leak same brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB
	138	pressure near4 (change or fluctuation or variariation or drop) same leak same brak\$4	USPAT;
	128	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) and 303/dig\$.ccls.	USPAT; US-PGPUB
	2	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 303/dig\$.ccls.	USPAT; US-PGPUB
	2	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 701/\$.ccls.	USPAT; US-PGPUB
	0	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 702/\$.ccls.	USPAT; US-PGPUB
	0	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) same model	USPAT; US-PGPUB
	2	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 73/\$.ccls.	USPAT; US-PGPUB
	6	((brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 303/dig\$.ccls. ) or ((brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 701/\$.ccls. ) or ((brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 73/\$.ccls. )	USPAT; US-PGPUB

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	30	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) and 303/\$.ccls.	USPAT; US-PGPUB
	0	6450591.URPN.	USPAT
	6	("5567021"   "5779327"   "5951120"   "5979997"   "5997106"   "6007164").PN.	USPAT
	1	(brak\$4 adj2 pressure) near4 (change or fluctuation or variation or drop or gradient) same (leak or leakage) same transducer	USPAT; US-PGPUB
	255	absolute adj4 pressure same brak\$4	USPAT; US-PGPUB
	18	absolute adj4 pressure same brak\$4 same gradient	USPAT; US-PGPUB
	1	integral adj4 pressure same brak\$4 same gradient	USPAT; US-PGPUB
	5	derivative adj4 pressure same brak\$4 same gradient	USPAT; US-PGPUB
	92	absolute adj4 pressure same brak\$4 and 303/\$.ccls.	USPAT; US-PGPUB
	2	absolute adj4 pressure same brak\$4 same (leak\$4 or loss) and 303/\$.ccls.	USPAT; US-PGPUB
	8	valve near footprint	USPAT; US-PGPUB; EPO; JPO; DERWENT
	1	(US-20030067217-\$).did.	US-PGPUB
	0	((US-20030067217-\$).did.) and anled adj surface	US-PGPUB
	0	((US-20030067217-\$).did.) and angled adj surface	US-PGPUB
	0	((US-20030067217-\$).did.) and angled adj2 surface	US-PGPUB
	1	((US-20030067217-\$).did.) and angled	US-PGPUB
	1	((US-20030067217-\$).did.) and angled	US-PGPUB
	1	((US-20030067217-\$).did.) and angled	US-PGPUB
	0	valve near footprint and delphi.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT
	0	valve near3 footprint and delphi.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT
	0	valve near4 footprint and delphi.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT
	8	valve near footprint	USPAT; US-PGPUB; EPO; JPO; DERWENT
	0	valve near footprint same angled	USPAT; US-PGPUB; EPO; JPO; DERWENT
	3	valve near footprint and angled	USPAT; US-PGPUB; EPO; JPO; DERWENT
	1	("6543791").PN.	USPAT; US-PGPUB
	0	Raymundo.in. and Cano.in. and delphi.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT
	0	saenz.in. and cano.in. and delphi.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT

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	1	saenz.in. and cano.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT
	355	(rod or shaft or stem) near3 ball same connection same valve	USPAT; US-PGPUB
	13	((rod or shaft or stem) near3 ball same connection same valve) and 303/\$.ccls.	USPAT; US-PGPUB
	123	((rod or shaft or stem) near3 ball same connection same valve) and 251/\$.ccls.	USPAT; US-PGPUB
	15	((rod or shaft or stem) near3 ball same connection same valve) and 239/\$.ccls.	USPAT; US-PGPUB
	94	((rod or shaft or stem) near3 ball same connection same valve) and 137/\$.ccls.	USPAT; US-PGPUB
	9	valve near footprint	USPAT; US-PGPUB; EPO; JPO; DERWENT
	2557	valve same ball same joint	USPAT; US-PGPUB; EPO; JPO; DERWENT
	1028	valve same ball same joint same (shaft or rod or plunger)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	1028	valve same ball same joint same (shaft or rod or plunger)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	118	valve near4 (spher\$6 or ball) same joint same (shaft or rod or plunger) near4 (spher\$6 or ball)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	3784	valve near4 (spher\$6 or ball) same (shaft or rod or plunger) near4 (spher\$6 or ball)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	181	valve near4 (spher\$6 or ball) same (shaft or rod or plunger) near4 (spher\$6 or ball) same (spher\$6 or ball) near5 (angle or angled or taper\$4 or cylindrical or truncat\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	24683	valve near4 (sphere or spherical or ball)	USOCR
	25994	(shaft or rod or plunger) near4 (sphere or spherical or ball)	USOCR
	1982	(valve near4 (sphere or spherical or ball) ) same ( (shaft or rod or plunger) near4 (sphere or spherical or ball) )	USOCR
	12687	(sphere or spherical or ball) near5 (angle or angled or taper or tapered or cylindrical or truncated)	USOCR
	105	((valve near4 (sphere or spherical or ball) ) same ( (shaft or rod or plunger) near4 (sphere or spherical or ball) )) same ((sphere or spherical or ball) near5 (angle or angled or taper or tapered or cylindrical or truncated) )	USOCR
	4348	valve same (spher\$6 or ball) same (shaft or rod or plunger) same (angle or angled or taper\$4 or cylindrical or truncat\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	4348	valve same (spher\$6 or ball) same (shaft or rod or plunger) same (angle or angled or taper\$4 or cylindrical or truncat\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT
	38036	valve same (spher\$6 or ball) same (shaft or rod or plunger)	USOCR
	14772	(valve same (spher\$6 or ball) same (shaft or rod or plunger) ) same (angle or angled or taper\$4 or cylindrical or truncat\$5)	USOCR

	141	((valve same (spher\$6 or ball) same (shaft or rod or plunger) ) same (angle or angled or taper\$4 or cylindrical or truncat\$5)) and 303/\$.ccls. 1 ("6155642").PN.	USOCR
	73	oohiro.asn.	USPAT; US-PGPUE USPAT; US-PGPUE USPAT
	5	("3596982"   "3698673"   "3964725"   "4173372"   "4344594").PN.	USPAT;
	5819	(oil or hydraulic) adj2 cylinder same lifting	USPAT;
	1167	(oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft)	USPAT;
	7	(oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft) same stopper	USPAT; US-PGPUB
	229	(oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft) same (link or lever)	USPAT; US-PGPUB
	3	((oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft) same (link or lever)) and 92/\$.ccls.	USPAT; US-PGPUB
	25	((oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft) same (link or lever)) and 254/\$.ccls.	USPAT; US-PGPUB
	1	((oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft) same (link or lever)) and 267/\$.ccls.	USPAT; US-PGPUB
	4	((oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft) same (link or lever)) and 188/\$.ccls.	USPAT; US-PGPUB
	40	(oil or hydraulic) adj2 cylinder same lifting same piston same (rod or shaft) same (link or lever) same (base or pedestal)	USPAT; US-PGPUB
	47	29/898.044.cccls.	USPAT; US-PGPUB
	341	29/898.044,441.1.cccls.	USPAT; US-PGPUB
	132	29/898.044,441.1.cccls.	USOCR

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